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VIRTUAL LOOP CARRIER SYSTEM WITH NETWORK CLOCK RECOVERY

-ABSTRACT-OF THE DISCLOSURE--

A loop carrier system includes a home local area network having plural telephone modules and a hub coupled to in-home telephone wiring. The telephone modules and the hub communicate voice signals over the in-home wiring in a dedicated frequency band above baseband POTS. The hub converts between voice signals and voice packets and is connected to a network access device for transferring the voice packets from the home local area network to a telecommunications network which routes the voice packets to a gateway. The gateway converts between the voice packets and a circuit format compatible with a local digital voice switch. The home local area network includes a timing recovery mechanism which in the absence of a clock that is traceable to the Primary Reference Clock on the public network is robust to clock drift, cell delay variation and cell impairments.

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